



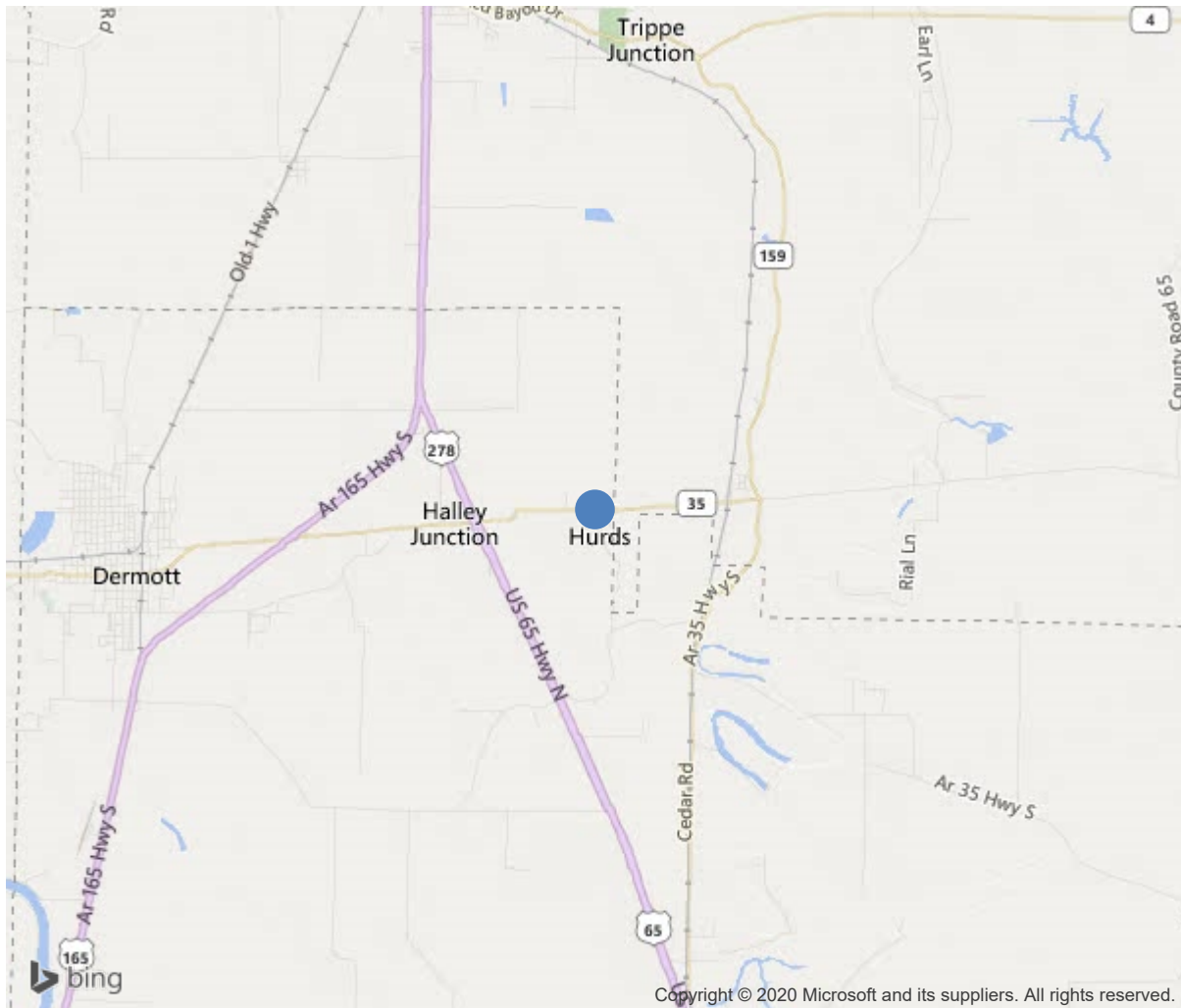
Bridge #03600(Routine)

SH 35-09 LM 5.95 over Black Pond Slough

Location: 1.3 Mi E US 65-Halley

Team Lead: Greg Loomis **Inspection Date:** April 24, 2019

1.3 Mi E US 65-Halley



33.53408, -91.35347



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IDENTIFICATION	
(1) State Names	Arkansas
(8) Structure Number	03600
(5) Inventory Route	35
(2) Highway Agency District	02
(3) County Code	17-Chicot County, Arkansas
(4) Place Code	0
(6) Features Intersected	Black Pond Slough
(7) Facility Carried	SH 35-09 LM 5.95
(9) Location	1.3 Mi E US 65-Halley
(11) Mile Point	5.95 mi
(12) Base Highway Network	No
(13) LRS Inventory Rte & Subrte	0000000000
(16) Latitude	33.5340816129422
(17) Longitude	-91.3534722716457
(98) Border Bridge State Code	
(99) Border Bridge Structure No.	
STRUCTURE TYPE AND MATERIAL	
(43) Main Structure Type	122
Material	1-Concrete
Type	22-Channel beam
(44) Approach Structure Type	00
Material	0-Other
Type	0-Other
(45) No. of Spans in Main Unit	9
(46) No. of Approach Spans	0
(107) Deck Structure Type	2-Concrete Precast Panels
(108) Wearing Surface/Protective System	
Type of Wearing Surface	6-Bituminous
Type of Membrane	0-None
Type of Deck Protection	0-None
AGE AND SERVICE	
(27) Year Built	1962
(106) Year Reconstructed	0
(42) Type of Service	15
On	1-Highway
Under	5-Waterway
(28) Lane	
On	2
Under	0
(29) Average Daily Traffic	530
(30) Year of ADT	2014
(109) Truck ADT	1 %
(19) Bypass, Detour Length	8 mi
GEOMETRIC DATA	
(48) Length of Maximum Span	31 ft
(49) Structure Length	188.5 ft
(50) Curb or Sidewalk Width	
Left	1 ft
Right	1 ft
(51) Bridge Roadway Width Curb to Curb	23.9 ft
(52) Deck Width Out to Out	26.2 ft
(32) Approach Roadway Width (W/Shoulders)	24 ft
(33) Bridge Median	0-No median
(34) Skew	45 Deg
(35) Structure Flared	No flare
(10) Inventory Route Min Vert Clear	99.99 ft
(47) Inventory Route Total Horiz Clear	24.3 ft
(53) Min Vert Clear Over Bridge Rdwy	99.99 ft
(54) Min Vert Underclear	0 ft
Ref:	
(55) Min Lat Underclear RT	99.9 ft
Ref:	
(56) Min Lat Underclear LT	0 ft
NAVIGATION DATA	
(38) Navigation Control	0-No navigation control on water
(111) Pier Protection	5-None present but re-evaluation
(39) Navigation Vertical Clearance	0 ft
(116) Vert-Lift Bridge Nav Min Vert Clear	0 ft
(40) Navigation Horizontal Clearance	0 ft

CLASSIFICATION			
(112) NBIS Bridge Length			Y
(104) Highway System			0
(26) Functional Class		7-Rural Major Collector	
(100) Defense Highway		0-The inventory route is not a S	
(101) Parallel Structure		N-No parallel structure exists.	
(102) Direction of Traffic		2 - way traffic	
(103) Temporary Structure			
(105) Federal Lands Highways		0-N/A	
(110) Designated National Network		0-The inventory route is not part of	
(20) Toll		3-On free road. The structure is toll-	
(21) Maintain		1-State Highway Agency	
(22) Owner		1-State Highway Agency	
(37) Historical Significance		5-Bridge is not eligible for the NRHP	
CONDITION			
(58) Deck			6
(59) Superstructure			6
(60) Substructure			6
(61) Channel & Channel Protection			6
(62) Culverts			N
LOAD RATING AND POSTING			
(31) Design Load		2-M 13.5 / H 15	
(63) Operating Rating Method			1
(64) Operating Rating			
Type		1-Load Factor(LF)	
Rating			52
(65) Inventory Rating Method		1-Load Factor(LF)	
(66) Inventory Rating			
Type			9
Rating			31
(70) Bridge Posting		5-Equal to or above legal loads	
(41) Structure Open/Posted/Closed		A-Open, no restriction	
APPRAISAL			
(67) Structural Evaluation			6
(68) Deck Geometry			4
(69) Clearances, Vertical/Horizontal			N
(71) Waterway Adequacy			8
(72) Approach Roadway Alignment			6
(36) Traffic Safety Features			0000
A) Bridge Railings		0-Inspected feature does not meet cur	
B) Transitions		0-Inspected feature does not meet cur	
C) Approach Guardrail		0-Inspected feature does not meet cur	
D) Approach Guardrail Ends		0-Inspected feature does not meet cur	
(113) Scour Critical Bridges		5-Bridge foundations determined to be	
PROPOSED IMPROVEMENTS			
(75) Type of Work			
(76) Length of Structure Improvement			0 ft
(94) Bridge Improvement Cost			\$ 0
(95) Roadway Improvement Cost			\$ 0
(96) Total Project Cost			\$ 0
(97) Year of Improvement Cost Estimate			
(114) Future ADT			489
(115) Year of Future ADT			2028
INSPECTIONS			
(90) Inspection Date			
(91) Frequency			24 Months
(92) Critical Feature Inspection	Done	Freq. (Mon)	Date
A: Fracture Critical Detail	No	24	
B: Underwater Inspection	No	0	
C: Other Special Inspection	No	0	



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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
16	Reinforced Concrete Top Flange	SF	4842	4842	0	0	0
510	Wearing Surfaces	SF	4472	2997	1075	400	0
3220	Crack (Wearing Surface)	SF	1475	0	1075	400	0
(16)	Deck: 26.16' wide x 185.1' long. Wearing surface: 24.16' wide x 185.1' long - 3" asphalt overlay. Joints at bents and joints between joints are reflected through wearing surface.						
110	Reinforced Concrete Open Girder/Beam	LF	1281	757	52	472	0
1080	Delamination/Spall/Patched Area	LF	470	0	20	450	0
1090	Exposed Rebar	LF	12	0	0	12	0
1120	Efflorescence/Rust Staining	LF	26	0	16	10	0
1130	Cracking (RC and Other)	LF	16	0	16	0	0
(110)	Girders: 7 precast units per span / Span 1-4 & 6-9 @ 19' each + Span 5 @ 31' each = 183' total span. Units are bolted transversely and longitudinally – no noted missing or loose bolts. State forces have grouted and patched over spalls and exposed rebar in scattered location of unit legs. A couple scattered areas of exposed rebar (Span 2 Unit 7) and cracking/delamination remain with some efflorescence, mainly on legs of exterior units Quantities: Delamination/spall/patch: CS2 20', CS3 450' Exposed rebar: CS3 12' Efflorescence: CS2 16', CS3 10' Cracking: CS3 16'						
215	Reinforced Concrete Abutment	LF	93	78	0	15	0
1130	Cracking (RC and Other)	LF	15	0	0	15	0
(215)	Abutments: 43' each (skewed) / Bent 1; 50' each (skewed) / Bent 10. Bent 10: Heavy horizontal cracking on back face - 15' CS3.						
227	Reinforced Concrete Pile	EA	31	23	8	0	0
1190	Abrasion/Wear (PSC/RC)	EA	8	0	8	0	0
(227)	Piling: 3 (exposed) per bent / Bent 2; 4 per bent / Bents 3-9. Bents 5 & 6: Light abrasive wear from being in the channel.- CS2 x 8.						
234	Reinforced Concrete Pier Cap	LF	320	181	139	0	0
1080	Delamination/Spall/Patched Area	LF	133	0	133	0	0

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ELEM	DESCRIPTION	UNITS	TOTAL	CS1	CS2	CS3	CS4
1130 (234)	Cracking (RC and Other)	LF	6	0	6	0	0
Caps: 40' each (skewed) / Bents 2-9. Bent 2: Minor cracking to ahead face - 6' CS2 cracking. Bents 3-9 have a number of areas that have been repaired/patched or grouted over - 133' CS2 patch.							
304	Open Expansion Joint	LF	360	0	0	360	0
2350 (304)	Debris Impaction	LF	360	0	0	360	0
Joints: 36' each (skewed) / Bents 1-10. Joints are covered over with asphalt wearing surface and are considered to be debris impacted - CS3.							
330	Metal Bridge Railing	LF	366	366	0	0	0
515	Steel Protective Coating	SF	915	0	915	0	0
3440 (330)	Effectiveness (Steel Protective Coatings)	SF	915	0	915	0	0
Railing: 183' each side. Coating: 2.5 square feet per linear feet of railing. Metal railing on concrete posts. Coating is dull and thinning with a few areas having minor flaking.							



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Maintenance Needs



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Inspection Comments

Bridge logged from west to east .04-24-2019 GGL-KLR: NBI and element quantities field measured and verified against plans.Removed underwater 2 due to substructure elements are not continually under water and scour counter measures are stable.